

Airmi Monoblock heat pump

AIMG140X3 [R14]





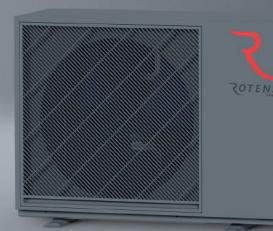






5-YEAR













Device features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C A++



Maximum COP 4,84



Operating range down to -25°C



Supply water temperature of 65°C



Smart Grid functionality



Twin rotary compressor



Integrated electric



Outdoor unit drip tray heater



Compressor crankcase heate



Easy installation and maintenance



Silent



WiFi module in wired controller



Daily operation schedule



Configurable weekly schedules



Vacation mode



Menu in English



Multilanguage menu



Integrated temperature sensor



Weather operating modes (climate curve)



2 heating control zones



Dedicated application



Disinfection



Maximum leaving water temperature of 60°C (in DHW mode)



Prepared to create a cascade system



Modbus Protocol



Specification outdoor unit

Model EAN Code Power supply				
				AIMG140X3 R14
				5905567602450
Power supply				590556/602450
			V-Hz, Ø	380-420~50, 3f
	Capacity		kW	14,50
Heating			kW	2,99
(A//W35)	Rated input		KVV	
	COP			4,84
	Capacity		kW	14,50
Heating	Rated input		kW	3,89
(A//W45)	A//W45)		KYV	
COP				3,72
	Capacity		kW	13,80
Heating	Rated input		kW	4,52
(~~~~~)			KVV	
	COP			3,12
Capacity			kW	14,10
Cooling	Rated input		kW	3,10
(A33/VV18)			KVV	
	EER			4,56
	Capacity		kW	14,30
Cooling	Rated input		kW	5,11
(ADD/W//)			KW	
	EER			2,80
	SCOP (1)			4,67
	Rated heat output		kW	13,2
Scasonar crici gy				
	Seasonal energy efficiency ratio (ηS)		96	184
LWT at 35°C	Annual energy consumption		kWh	5821
	Seasonal space heating energy efficiency class ⁽¹⁾			A+++
	SCOP (1)			3,62
Seasonal energy	Rated heat output		kW	12,40
	Seasonal energy efficiency ratio (ηS)		96	142
LWI dt 55 C	Annual energy consumption		kWh	7054
	Seasonal space heating energy efficiency class ⁽¹⁾			A++
	LWT at 7°C			5,59
SEER -				
	LWT at 18°C			8,33
Minimum rated curre	ent of the overcurrent circuit breaker wi	ith breaker type	A	B25
Compressor		Туре		Twin rotary inverter compressor DC
Fan Type				Brushless DC motor / BLDC
		Quantity		1
Type GWP			R32	
				675
Refrigerant				
		Quantity	kg	2,1
		Quartity	TCO₂eq	1,417
Minimal wire pcs and dimension of cords*		pcs × mm²	5×4	
Bracket spacing		(W1 × W2 × D)	mm	654×280×493
Sound pressure level	el	, ,	dB(A)	50
Sound pressure level	21		dB(A)	
Sound pressure level Sound power level	21		dB(A)	65
Sound pressure level Sound power level Net dimensions	21	(W×D×H)	dB(A) dB(A) mm	65 1203×493×860
Sound pressure level Sound power level	21		dB(A)	65
Sound pressure level Sound power level Net dimensions Gross dimensions		(W×D×H)	dB(A) dB(A) mm	65 1203×493×860
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w	veight	(W×D×H)	dB(A) dB(A) mm mm kg	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor	veight Cooling / Heating	(W×D×H)	dB(A) dB(A) mm mm kg °C	65 1203 × 493 × 860 1285 × 495 × 1040 140/159 -5-43/-25-35
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor	veight	(W×D×H)	dB(A) dB(A) mm mm kg	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor	veight Cooling / Heating	(W×D×H)	dB(A) dB(A) mm mm kg °C	65 1203 × 493 × 860 1285 × 495 × 1040 140/159 -5-43/-25-35
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes	veight Cooling / Heating DHW	(W×D×H)	dB(A) dB(A) mm mm kg °C °C	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes	weight Cooling / Heating DHW Space cooling	(W×D×H)	dB(A) dB(A) mm mm kg °C °C	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight Cooling / Heating DHW Space cooling Space heating	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-43 Heating and cooling 7-25 25-65
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling / Heating DHW Space cooling	(W×D×H)	dB(A) dB(A) mm mm kg °C °C	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW(tank)	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-65 25-60
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling -7-25 25-65 25-60 380-420-50, 3f
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW(tank)	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C °C	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-65 25-60
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling -7-25 25-65 25-60 380-420-50, 3f
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power	(W×D×H)	dB(A) dB(A) mm mm kg °C °C C C V-Hz, Ø pcs	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-65 25-60 380-420-50, 3f 3 9
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	weight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø pcs kW	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 5-43 / -25-43 Heating and cooling 7-25 25-65 25-60 380-420-50, 3f 3 9 13,6
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø pcs kW A mm(inch)	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	weight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø pcs kW	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 5-43 / -25-35 25-43 Heating and cooling 7-25 25-66 25-60 380-420-50, 3f 3 9 13.6
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor Operating outdoor Uperation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve	(W×D×H)	dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø pcs kW A mm(inch)	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-65 25-60 380-420-50, 3f 3 9 13,6 Φ33 (1,30) 0,3
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor Operating outdoor Uperation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections	(W x D x H) (W x D x H)	dB(A) dB(A) mm mm kg °C °C °C C V-Hz, Ø pcs kW A mm(inch)	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and colling 7-25 25-65 25-60 380-420-50, 3f 3 9 13,6 Φ33 (1,30) 0,3 Φ12,7
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor Operating outdoor Uperation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve	(W x D x H) (W x D x H) Total volume	dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-65 25-60 380-420-50, 3f 3 9 13,6 033 (1,30) 0,3
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve Condensate drain	(W x D x H) (W x D x H)	dB(A) dB(A) mm mm kg °C °C °C C V-Hz, Ø pcs kW A mm(inch)	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-65 25-60 380-420-50, 3f 3 9 13,6 Φ33 (1,30) 0,3 Φ12,7
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating outdoor temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve	(W×D×H) (W×D×H) Total volume Actual volume	dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-66 25-60 380-420-50, 3f 3 9 13,6 433 (1,30) 0,3 0,3 0,127 5 5
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve Condensate drain	(W x D x H) (W x D x H) Total volume Actual volume Maximum pressure	dB(A) dB(A) mm mm kg °C °C °C C V-Hz, Ø pcs kW A mm(inch) MPa mm I I MPa	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 5-43 / -25-35 25-43 Heating and cooling 7-25 25-66 25-60 380-420-50, 3f 3 9 13.6 Φ33 (1.00) 0,3 Φ12,7 5 5 2 0,5
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating outdoor temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve Condensate drain	(W x D x H) (W x D x H) Total volume Actual volume Maximum pressure Initial pressure	dB(A) dB(A) mm mm kg °C °C C °C V-Hz, Ø pcs kW A mm (inch) MPa mm	65 1203 × 493 × 860 1285 × 495 × 1040 1407 159 15-437-25-35 25-43 Heating and cooling 7-25 25-65 25-66 380-420-50.3f 3 9 13.6 033(1,30) 0,3 0,3 0,12,7 5 2 0,5 0,15
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating outdoor temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank	(W x D x H) (W x D x H) Total volume Actual volume Maximum pressure	dB(A) dB(A) mm mm kg °C °C °C C V-Hz, Ø pcs kW A mm(inch) MPa mm I I MPa	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 5-43 / -25-35 25-43 Heating and cooling 7-25 25-66 25-60 380-420-50, 3f 3 9 13.6 Φ33 (1.00) 0,3 Φ12,7 5 5 2 0,5
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating outdoor temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve Condensate drain	(W x D x H) (W x D x H) Total volume Actual volume Maximum pressure Initial pressure	dB(A) dB(A) mm mm kg %C %C %C %C %C %C %C %	65 1203 × 493 × 860 1285 × 495 × 1040 1407 159 15-437-25-35 25-43 Heating and cooling 7-25 25-65 25-66 380-420-50.3f 3 9 13.6 033(1,30) 0,3 0,3 0,12,7 5 2 0,5 0,15
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating nutdoor temperature Electric heater Water circuit	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger	(W x D x H) (W x D x H) Total volume Actual volume Maximum pressure Initial pressure	dB(A) dB(A) mm mm kg °C °C °C C V-Hz, Ø pcs kW A MPa mm I I MPa MPa Vmin	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / 25-25 -25-43 Heating and cooling 7-25 -25-65 -25-60 -380-40-50, 3f -3 -9 -13,6 -03 -03 -012,7 -5 -5 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger Water pump head	(W x D x H) (W x D x H) Total volume Actual volume Maximum pressure Initial pressure	dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm (inch) MPa mm I MPa MPa	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-66 25-60 380-420-50, 3f 3 3 9 9 13,6 0,3 (1,30) 0,3 0,3 0,15 PHE / plate heat exchanger
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger	(W x D x H) (W x D x H) Total volume Actual volume Maximum pressure Initial pressure	dB(A) dB(A) mm mm kg °C °C °C C V-Hz, Ø pcs kW A MPa mm I I MPa MPa Vmin	65 1203 × 493 × 860 1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-65 25-60 380-420-50, 3f 3 9 13,6 03 03 012,7 5 5 2 0,5 0,15 PHE / plate heat exchanger

⁽¹⁾ Seasonal energy efficiency class measured under average climate conditions.

(T) Seasonal energy enlicative Custom Readured United average united Exhibitions.

Notes: DHW – Domestic hot water, LWT – Leaving water temperature

The sound pressure level is measured 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W45, ΔT=5; A7W55 ΔT=8; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02: 2014.

The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than IΔn: 30mA

*The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.